Introduction to Open Source GIS

CNRA GIS Day

Geospatial Consulting @ UC Davis @GeospatialUCD

Michele M. Tobias, PhD

@MicheleTobias

Nov 13. 2014

What is "Open Source"?

Open source software is software that can be

freely used changed and shared

(in modified or unmodified form)

by anyone.

Open source software is made by many people, and distributed under licenses that comply with the Open Source Definition.

- Open Source Initiative

Why Use Open Source?

1. It's Free

Free software: Not "free" as in "beer" or "free" as in "freedom".

"Free" as in "puppy".

- Sarah Novotny, Community Manager for Nginx

Requires Upkeep

... but doesn't all software?

2. Frequent Updates

3. Participate in Development

4. No "Black Box" Analysis

5. Multi-platform

Do I Have to Choose a Side?

Don't Choose. Be Open.

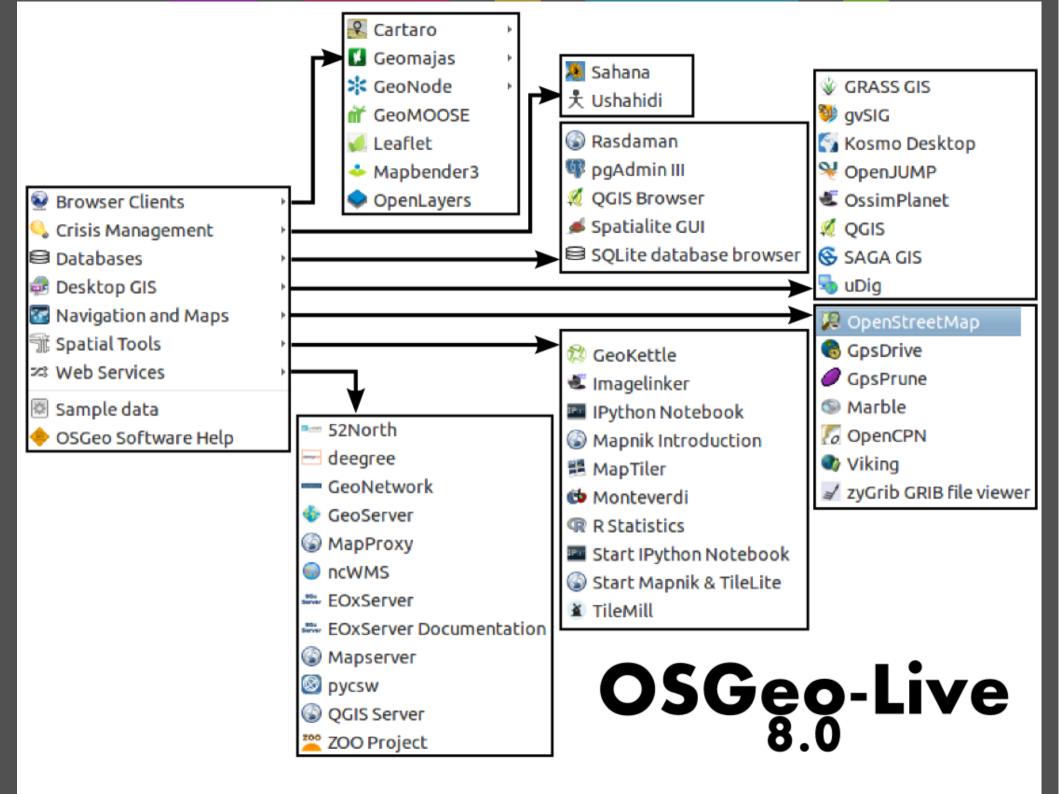
More Tools = Quicker + Better Results

What Software is Available?

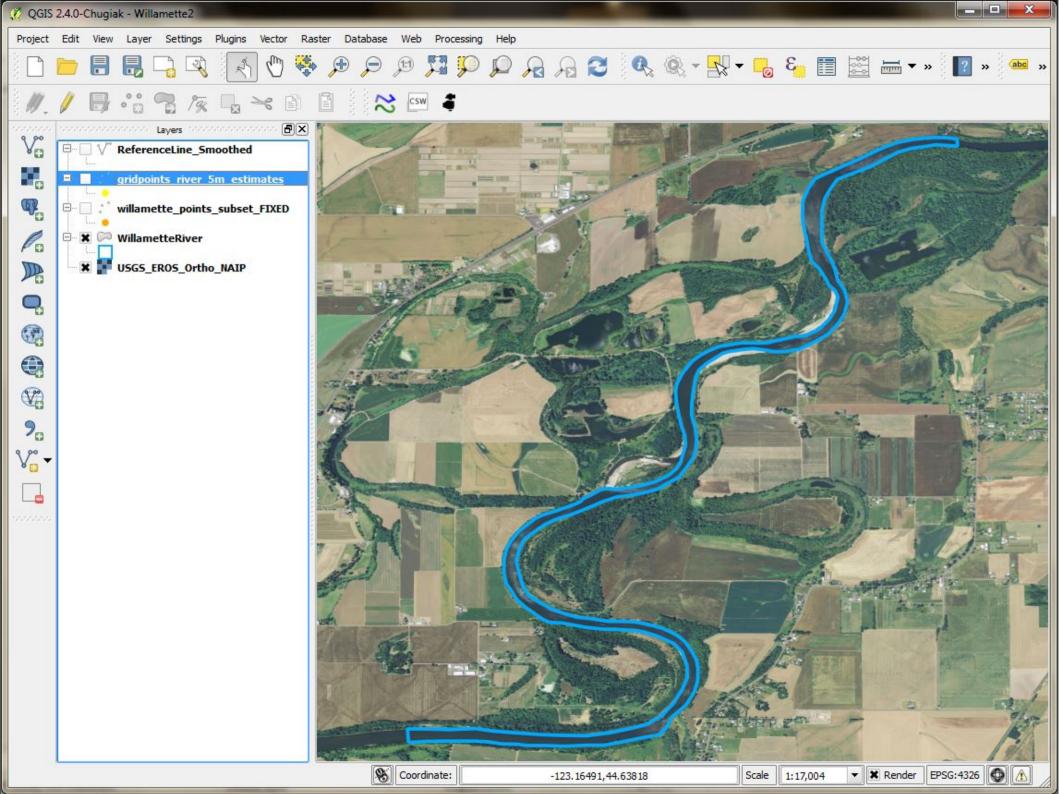
OSGeoLive

live.osgeo.org

Try MANY software options without installation



QGIS



Editing Add Data

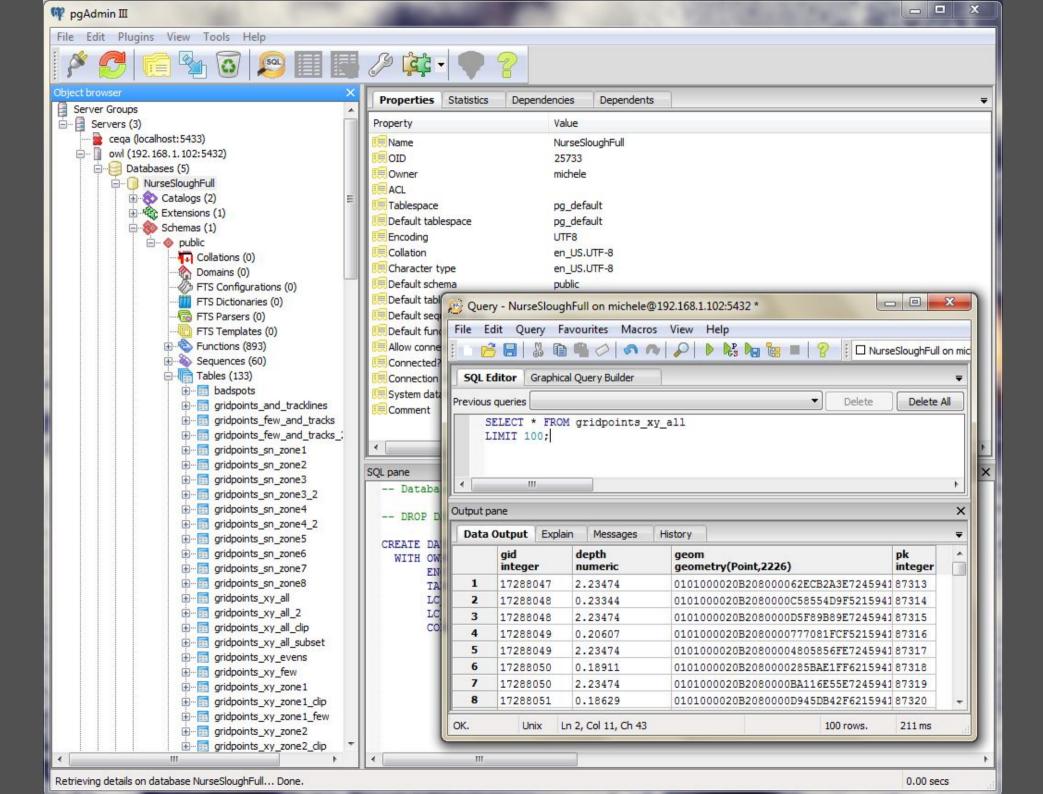


Map Navigation

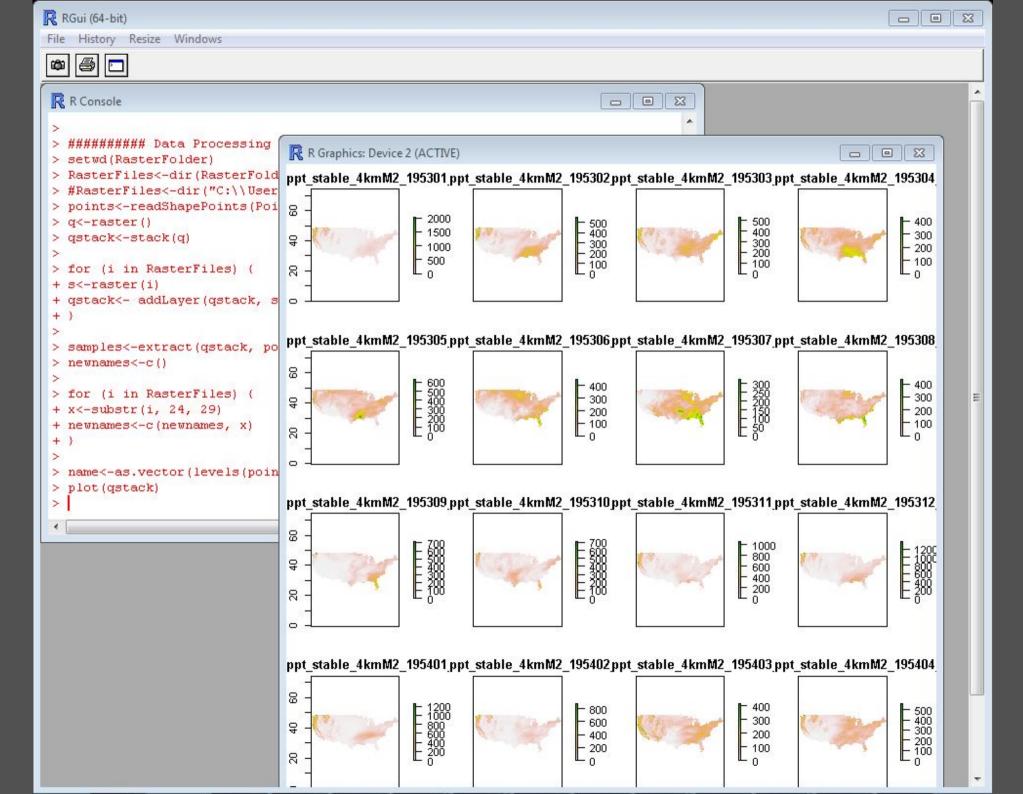
@GeospatialUCD

@MicheleTobias

PostGIS



R



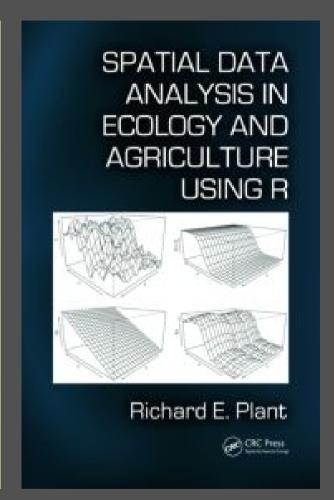
lise R

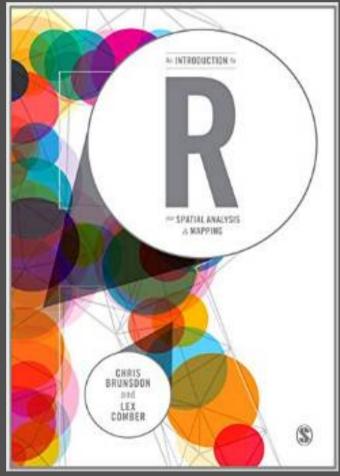
Roger S. Bivand Edzer Pebesma Virgilio Gómez-Rubio

Applied Spatial Data Analysis with R

Second Edition







Community

Open Source Geospatial Foundation

Open Source Geospatial Software Community OSGeo.org

+ California Chapter

FOSS4G

Open Source Geospatial Software Conferences foss4g.org

Upcoming Conferences:

FOSS4G North America – March 9-12, Burlingame, CA

FOSS4G - Sept. 14-19, Seoul, Korea

Questions?

Contact Information:

Michele Tobias

mmtobias@ucdavis.edu @MicheleTobias impactstory.org/MicheleTobias